



## WEATHER STATION WITH CABLE FREE IN-OUT THERMOMETER IN-OUT HYGROMETER MOONPHASE AND RADIO CONTROLLED CLOCK (SWISS SIGNAL "HBG")

HBR623i

USER'S MANUAL

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IROX TE635EL & TS33C MANUAL (ENG)  
SIZE: W65 X H105 (mm)  
BY EMILY TSOI 04/12/06

### 1. INTRODUCTION

Congratulations on your purchase of the HBR623i.

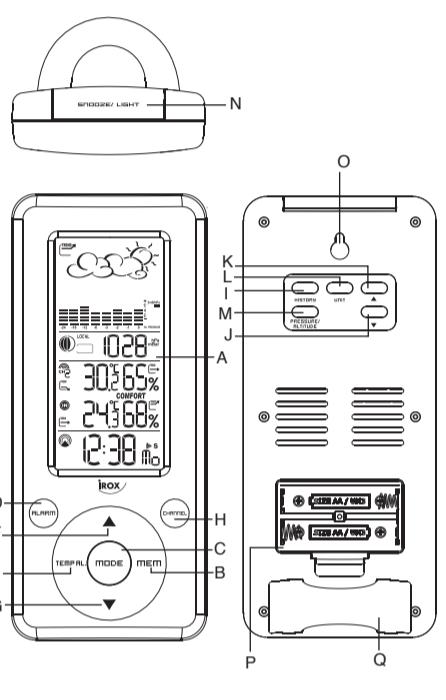
The basic package comes with a main unit, which is the weather forecast station, and one remote unit, the thermo/hygro sensor.

The main unit is capable of keeping track of the maximum and minimum temperature of different sites. And no wire installation is required and operates at 433MHz.

Apart from temperature shows the indoor and outdoor relative humidity and rates the comfort level.

The built-in barometer enables to display the atmospheric pressure with user-selectable altitude adjustment. A bar graph will show the pressure trend of the last 24 hours.

What is more, is equipped with a moon phase scanner, which lets you check the moon phase of the forward & backward 39 days.



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### A DISPLAY

**B MEMORY [MEM] BUTTON**  
Records the maximum or minimum temperature and humidity of main and remote unit

**C [MODE] BUTTON**  
Toggles the display modes and confirms entry while setting the values for display

**D [ALARM] BUTTON**  
Displays the alarm time or sets the alarm status

**E [TEMP-ALARM] BUTTON**  
Displays the temperature alarm or sets the upper or lower limit

**F UP [▲] BUTTON**  
Advances the value of a setting

**G DOWN [▼] BUTTON**  
Decreases the value of a setting

**H [CHANNEL] BUTTON**  
Displays different sensor temperature & humidity

**I [HISTORY] BUTTON**  
Displays the pressure history of previous hours

**J DOWN [▼] BUTTON (REAR PANEL)**  
Display the moonphase of previous days or sets the altitude or sea level pressure

**K UP [▲] BUTTON (REAR PANEL)**  
Display the moonphase of following days or sets the altitude or sea level pressure

**L [UNIT] BUTTON (REAR PANEL)**  
Sets the unit of altitude or pressure

**M [PRESSURE/ALITUDE] BUTTON (REAR PANEL)**  
Toggles the display between local pressure, sea level pressure and altitude.

**N [SNOOZE/LIGHT] BUTTON**  
Activate the snooze function and backlight

**O WALL-MOUNT RECESSED HOLE**  
For mounting the main unit on a wall

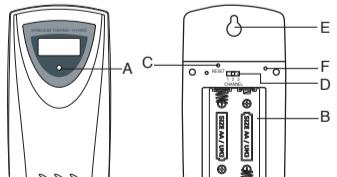
**P BATTERY COMPARTMENTS**  
Accommodates two UM-3 or "AA" size 1.5V batteries

**Q REMOVABLE TABLE STAND**  
For standing the main unit on a flat surface

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### MAIN FEATURES: THERMO/HYDRO REMOTE UNIT



**A LED INDICATOR**  
Flashes once when the remote unit transmits a reading. Flashes twice when low battery is detected on sensor unit.

**B BATTERY COMPARTMENT**  
Accommodates two AA-size batteries.

**C RESET BUTTON**  
Press to reset all setting if you have selected different channel.

**D CHANNEL SELECTOR**  
Select the channel before you install batteries.

**E WALL-MOUNT RECESSED HOLE**  
Supports the remote unit in wall-mounting.

F "C" / F BUTTON

### 2. GETTING STARTED

#### 2(a) BEFORE YOU BEGIN

For best operation,  
1. Insert batteries for remote units before doing so for the main unit.  
2. Position the remote unit and main unit within effective transmission range, which, in usual circumstances, is 20 to 30 meters.  
3. The remote unit range is vastly affected by the building materials and where the main and remote units are positioned.  
Try various set-ups for best result.  
Though the remote units are weather proof, they should be placed away from direct sunlight, rain or snow.

**2(b) BATTERY INSTALLATION: REMOTE UNIT**  
1. Remove the screws on battery compartment.  
2. Insert the element.  
3. Install 2 batteries (UM-3 or "AA" size 1.5V) strictly according to the polarities shown.  
4. Replace the battery compartment door and secure its screws.

**2(c) BATTERY INSTALLATION: MAIN UNIT**  
1. Open the battery compartment door.  
2. Install 2 batteries (UM-3 or "AA" size 1.5V) strictly according to the polarities shown.  
3. Replace the battery compartment door.

**2(d) LOW BATTERY WARNING**  
It's time to replace batteries for the remote sensors or the unit, the respective low-battery indicator [●] will show up on the outdoor temperature display (for the thermo/hygro sensor) or on the clock display (for the unit).

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### 2(e) HOW TO USE THE STAND OR WALL MOUNTING

The main unit has a removable table stand, which when connected, can support the unit on a flat surface. Or you can remove the stand and mount the unit on a wall using the recessed screw hole.

### 2(f) GETTING STARTED

SETTING UP THE BAROMETER  
a. When batteries are installed, the display will show the "hPa" and "inBar". Use the [Unit] key to change the unit. The unit will show "hPa" or "inBar". User can use the [▲] or [▼] (rear panel) keys to change to "feet", or use the [Unit] key to confirm the height.

b. After user confirmed the unit of height, it will show "10" with "meter" or "32" with "feet". User can use the [▲] or [▼] (rear panel) keys to change to height of the place, and use the [Unit] key to confirm the height. The default unit of pressure is hPa/inBar, unit of height is meter/feet. The unit will show "10" with the default value if no key is pressed for 60 seconds. Thereafter, the setting of the altitude in meters can only be done after reinserting the batteries.

### 3. SETTING UP THE REMOTE SENSORS

a. Once batteries are in place for remote unit, it will start transmitting temperature and humidity readings at around 45 seconds intervals.  
The unit will also be searching for signals for about two minutes once batteries are installed. 10 seconds upon successful reception, the outdoors temperatures and humidity will be displayed.

b. If no signals are received, blanks "----" will be displayed. Hold [▼] for 2 seconds to enforce another search for about 2 minutes. This is useful in synchronizing the transmission and reception of the remote and main units.

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Repeat this step whenever you find discrepancies between the reading shown on the main unit and that on the remote unit.

### 3. WEATHER FORECAST

3(a) WEATHER FORECAST  
The unit is capable of detecting atmospheric pressure changes. Based on collected data, it can predict the weather for the forthcoming 12 to 24 hours.

Symbol	Sunny	Slightly Cloudy	Cloudy
Forecast	Sunny	Slightly Cloudy	Cloudy

Symbol	Rainy	Heavy Rainy	Snowy
Forecast	Rainy	Heavy Rainy	Snowy

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### NOTE:

1. It is not necessary and not possible to adjust the altitude of the main unit after the initial start-up of the weather station, a first forecast will be made within the first 24 hours of operation.

2. In periods of long stable weather conditions, it becomes difficult to make a reliable forecast.

3. The weather forecast is solely calculated on the basis of barometric air pressure changes.

4. The probability of a correct weather forecast is dependent on the accuracy of the forecast of tomorrow, 20-30 km around the location of the weather station.

5. The forecast "Sunny" means at night "cloudless weather". Fogies not indicated by the weather station as this can occur with different weather conditions.

6. If you travel with become impossible due to changes in altitude and location. You'll have to wait up to 24 hours so that the weather station can calculate a new forecast based on the conditions at the new location.

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### 6(b) CALENDAR CLOCK DISPLAY MODES

The clock and the calendar share the same section of the display. The calendar is displayed in a day-month format. Each press on the [MODE] button will change the display between clock with second, clock with day of week, zone time with day of week, zone time with second and day-month.

### 7. BELL / ALARM

#### 7(a) HOW TO SET AND ARM THE ALARM

To set an alarm,  
1. Press [ALARM] once to display alarm time. If the alarm is disarmed, the time will be displayed as "OFF".

2. Hold [ALARM] for two seconds. The hour digits will blink.

3. Enter the hour using [▼] or [▲].

4. Press [ALARM]. The minute digits will blink.

5. Enter the minutes using [▼] or [▲].

6. Press [ALARM] to exit.

7. Repeat the same procedure to set single alarm.

### 7(b) HOW TO SET THE ZONE TIME

To set the clock manually, hold [MODE] for two seconds it will show the weekly language. Use [▼] or [▲] to change it. Press [MODE] to confirm. Repeat the same procedure, date-month format, 12-hour format. During the setting, press and hold [▼] or [▲] will increase or decrease the value rapidly. For display language, you can choose among English (En), German (DE), French (Fr), Italian (IT) and Spanish (Sp) - in that order. If there is an item you do not wish to change, simply press [MODE] to bypass the item. When you finish the change, press [MODE] to exit. The display will return to the clock mode.

### 7(c) SNOOZE FEATURE

When the alarm sound is on, press the snooze key enter snooze mode. After 8 minutes, alarm sound will be waken up automatically. The snooze cycle will be restarted if you press the snooze key again. If you leave the alarm sound on for 2 minutes, it will enter snooze mode automatically with maximum 3 times.

### 7(d) HOW TO STOP AN ALARM

Press [ALARM] on the unit to stop an alarm.

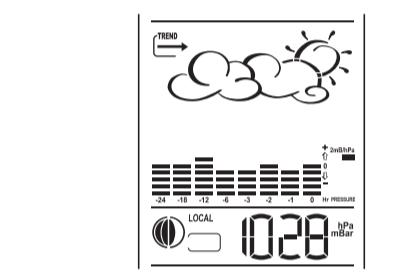
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### 3(b) BAROMETRIC PRESSURE TREND

The atmospheric pressure indicator, in the weather forecast window, uses arrows to indicate if the atmospheric pressure is increasing, remaining stable, or decreasing.

Arrow indicator	Rising	Steady	Falling
Pressure Trend	Rising	Steady	Falling

### 3(c) HOW TO CHECK THE BAROMETRIC PRESSURE



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The current and historical barometric pressure is shown on the atmospheric pressure window. For user staying at a higher altitude such as in the mountain area, sea-level barometric pressure applies. Use [PRESSURE / ALTITUDE] key to toggle the display to sea-level pressure display. Press and hold the Pressure/Altitude key to enter the sea level pressure adjusting mode.

Use the [▲] or [▼] (rear panel) key to enter sea level pressure and use [PRESSURE/ALTITUDE] to confirm. The atmospheric pressure can be displayed in mbhPa or inHg. To change the pressure unit, press and hold the [UNIT] key at sea level pressure display and use [▲] or [▼] (rear panel) key to select.

Press the [UNIT] key to confirm.

If you want to check the pressure history for a particular hour during the past 36 hours, press the [HISTORY] button.

Each press on the button will go back by an hour.

The recorded atmospheric changes for the past 24 hours are displayed in a bar chart above the atmospheric pressure window.

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### 4. THERMOMETER / HUMIDITY

#### 4(a) HOW TO CHECK REMOTE AND INDOOR TEMPERATURES

The wave display on the remote unit indicates the reception of the remote unit is in good order. If no readings are received from the remote unit for more than two minutes, blanks "----" will be displayed until further readings are successfully received. Check the remote unit is sound and secure. You can wait for a little while or Hold [▼] for 2 seconds to enforce an immediate search. If the temperature or humidity goes above or below the measuring range of the main unit or the remote unit (set in the factory), the display will show "----" & "HHH" or "LLL" respectively.

The unit can be set to automatically scan and display readings from the remote sensors, the display will show the readings from one channel for about 4 seconds and then proceed to the next channel display.

#### 4(b) TO ACTIVATE THE REMOTE-SENSOR SCANNING MODE:

Press and hold the button [CHANNEL] for 2 seconds.

#### 4(c) TO DEACTIVATE THE REMOTE-SENSOR SCANNING MODE:

Press and hold the button [CHANNEL] for 2 seconds.

#### 4(d) HOW TO READ THE KINETIC WAVE DISPLAY

The kinetic wave display shows the signal receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	[●] [●]
Temperature readings are securely registered.	[●] [●]
No signals.	[●] [●]

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#### 4(e) MAXIMUM AND MINIMUM TEMPERATURES AND HUMIDITY